WEEK 6 TASK

Select one or more choices from the list of common Machine Learning Algorithms, do some investigations and write me a short summary. I am looking for the following:

* Is it Supervised/Unsupervised/Reinforcement learning?
* What does the algorithm do?
* In which situations will it be most useful?
* (Optional) Can you find any examples of where this algorithm has been used?

Machine learning can be perceived as a human or a person who is for example very new to his or her job. For this person to be productive, inputs such as exposing to trainings, practical applications, lectures. Once this person has those inputs, they will be able to function according to the desired standard of that company.

Algorithms is the thinking process which eventually will give an output or product.

Unsupervised learning is a type of machine learning algorithm that brings order to the dataset and makes sense of data. They are used to group unstructured data according to its similarities and distinct patterns in the dataset.

The unsupervised algorithm works with unlabeled data. Its purpose is exploration. Data will be inputted, identify any patterns and visualise and interpret what does the data really shows.

Unsupervised algorithm is used with big data which at the moment I am currently involved with. I am working in the NHS and one of my roles is to collect data. I collect patient demographics, diagnosis, even the time the patient has their first CT scan, their swallow screened, the time of their arrival in the emergency department, or even how many minutes patient has been seen by any specialist. Quarterly, these data are then sent to the national audit facility of the NHS to be analysed. For the purpose of quality improvement, I try to interpret the data using a spreadsheet.